

00441 **Evaluation of Sex Hormone Binding Globulin (SHBG) Assay Using Abbott Architect i2000SR Analyser**

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Aims: In this study, we aimed to study the performance of the Architect SHBG assay on Abbott Architect i2000SR analyzer.

Methodology: We evaluated inter-day imprecision, linearity and limit of quantitation (LOQ) of the assay and its performance in two external quality assessment (EQA) schemes.

Result: Inter-day imprecision, CV (%), over 20 days was 5.6% at 8.9 nmol/L, 8.9% at 23.24 nmol/L and 7.7% at 152.20 nmol/L. The assay demonstrated linearity for measurement between 1.0 – 250.0 nmol/L. Limit of quantitation (LOQ) was found to be 1.0 nmol/L with CV = 3.5%. EQA results were comparable with peers participating in the Royal College of Pathologists of Australasia Quality Assurance Program (RCPAQAP)

Conclusion: We have evaluated the performance (imprecision, linearity and LOQ) of the Architect SHBG assay on the Abbott Architect i2000SR analyzer. Assay results were found to be satisfactory compared to all users' means in RCPAQAP.